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in each V'_i with $i \in I$. In particular $\bigcup_i V'_i = M$. Finally $\overline{V'_i} \subset \bigcup_{I \ni i} \overline{U}_I \subset V_i$. This completes the proof of Lemma 4.4. Note that if the V_i were invariant under an action of a compact group G , the U_I could be taken G -invariant also.

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